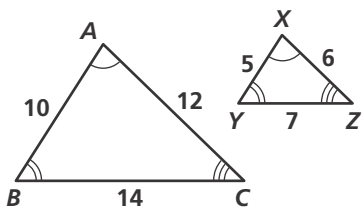


Practice 8-2

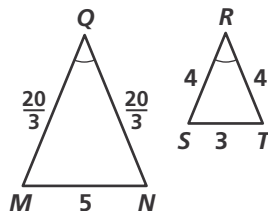
Similar Polygons

Are the polygons similar? If they are, write a similarity statement, and give the similarity ratio. If they are not, explain.

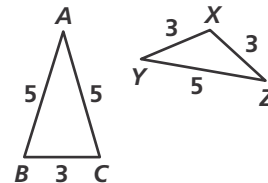
1.



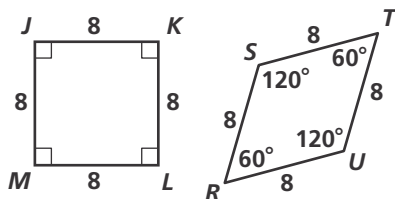
2.



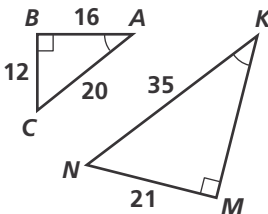
3.



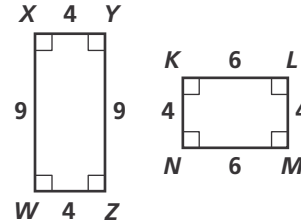
4.



5.



6.



$LMNO \sim HIJK$. Complete the proportions and congruence statements.

7. $\angle M \cong ?$

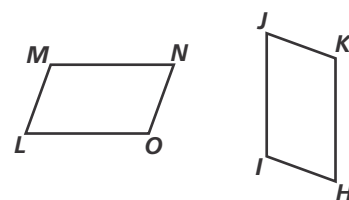
8. $\angle K \cong ?$

9. $\angle N \cong ?$

10. $\frac{MN}{IJ} = \frac{?}{JK}$

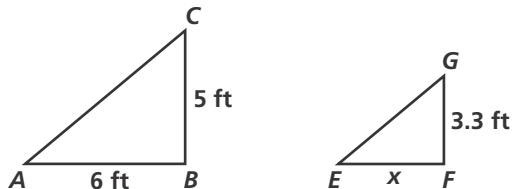
11. $\frac{HK}{?} = \frac{HI}{LM}$

12. $\frac{IJ}{MN} = \frac{HK}{?}$

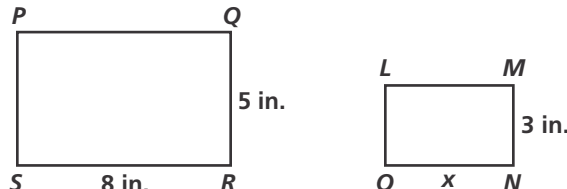


Algebra The polygons are similar. Find the values of the variables.

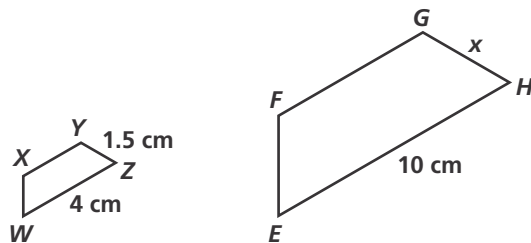
13.



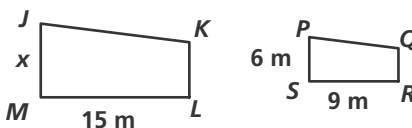
14.



15.



16.



$\triangle WXZ \sim \triangle DFG$. Use the diagram to find the following.

17. the similarity ratio of $\triangle WXZ$ and $\triangle DFG$

18. $m\angle Z$

19. DG

20. GF

21. $m\angle G$

22. $m\angle D$

23. WZ

